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PHILIP MORRIS U.S.A.
INTEROFFICE CORRESPONDENCE
Richmond, Virginia

To: Dr. Jane Lewis**Date:** January 30, 1996**From:** Nancy R. Bordeaux *N.R.B.***Subject:** PSRC - Particles of Stem Rolled and Cut

Cigarettes from Star Tobacco Corporation in Petersburg, Virginia, "Sport" were submitted for blend identification. The cigarette blends contain a material similar to reconstituted tobacco. This material is made of processed tobacco stems, rolled and sandwiched (layered) to form a sheet and cut similar to tobacco shreds. For clarification purposes this material will be referred to as PSRC. PSRC was previously observed in the following cigarette brands. **Note:** All of these cigarette products claim to be made from 100% Natural tobaccos.

Tobacco Alternative Inc.July, 1995

	<u>% PSRC</u>	<u>% Recon</u>	<u>% ES</u>	<u>% ET</u>
Pure Full Flavor KS	11	0	0	0
Pure Lights KS	↓	↓	↓	↓
Pure Menthol KS	↓	↓	↓	↓

Kretek Distributors Inc.May, 1995

Free Spirit KS	15	0	0	0
Free Spirit Lights KS	↓	↓	↓	↓

Star Tobacco Corp.January, 1996

Sport Full Flavor KS	11	Trace	0	0
Sport Lights KS	18	Trace	0	0
Sport Menthol KS (box)	7	6	3	2

October, 1994

Gunsmoke Western Blend KS (box)	13	0	0	0
Gunsmoke Western Blend Lights KS (box)	↓	↓	↓	↓
Gunsmoke Western Blend 100 (box)	↓	↓	↓	↓
Gunsmoke High Sierra Blend Men Lts 100 (box)	↓	↓	↓	↓
Gunsmoke Virginia Blend Lights 100 (box)	↓	↓	↓	↓

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Valentine Lights KS (box)	11	0	0	0
Valentine Lights 100 (box)	↓	↓	↓	↓
Valentine Menthol 100 (box)	↓	↓	↓	↓
Vegas Full Flavor KS	19	Trace	0	0
Vegas Menthol KS (box)	↓	↓	↓	↓
Vegas Menthol Lights 100	↓	↓	↓	↓
Vegas Lights KS	↓	↓	↓	↓
Vegas Ultra Lights 100	↓	↓	↓	↓

This material was first seen in loose tobacco filler, picked up in Canada in March 1993. During our examination it was noted that the material was unusual. It appeared to be reconstituted tobacco, and yet chemical analysis showed there was no binder present. Chemically the product appeared to be mostly stems without additional pectin. Hot water solubles, and GC-Acids data showed that this material was held together by sugars and low molecular weight starch in combination with pressure and possibly heat and water resulting in a layering (sandwich) effect. The material has been described as a "hybrid" of CRS (cut rolled stems) and reconstituted tobacco. It appeared to be wet stems held together by a rolling process, cut through one set of rotary blades, and clean cut on two sides.

In conclusion, this is not a typical reconstituted tobacco material and also not typical of expanded or non-expanded stems, therefore making it necessary to label it PSRC (particles of stems rolled and cut), in an attempt to distinguish it from reconstituted tobacco and expanded stems. Without binders present, it is assumed that the large particle stem is processed using pressure/heat to make the stem sheet. For additional analytical data, refer to the following:

References:

1. Laffoon, "Gunsmoke, Valentine & Vegas Cigarettes", memo., 12-2-94.
2. Baliga, "Microscopic Characterization of Cigarette Components from Star Corporation Cigarettes", memo to M. Krauss and G. Chan, 1-16-95.
3. Jan B. Wooten, "C CPMAS NMR of "Star Recon", memo to G. Chan, 2-1-95.
4. Torrance, "Analysis of Stem Samples (ARD Codes: K95011, L95011)", memo to D. Self, 2-13-95.

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